


NeoFlow Plug-and-Play Chamber

A quick-to-install pressure management solution to cut water loss

Sabesp water utility Brazil



Introducing our plug-and-play chamber with the NeoFlow pressure reducing valve (PRV) for swift installation and smart pressure management.

Pre-fabricated pressure chamber to prevent water loss



Sabesp partnered with GF to modernize the Vale do Paraíba water network with a plug-and-play HDPE chamber featuring NeoFlow pressure regulating valve. This pioneering project enhances efficiency, supports pipe burst reduction, and sets a new benchmark for sustainable and scalable water management in Latin America.

Project background

Sabesp needed a fast, low-impact solution to reduce water loss caused by excess pressure in its distribution network. In Vale do Paraíba, the utility required rapid installation, minimal environmental and road disturbance, and long-term durability — without complex civil works or high installation effort.

Selected technical solution

Thanks to GF's prefabrication expertise, the standardized chamber made of HDPE, 10x lighter than a comparable concrete chamber, comes fully integrated with a NeoFlow pressure reducing valve (PRV) for precise, energy-efficient control, as well as metal valves and thermoplastic fittings and pipes to ensure optimal performance. Because the chamber arrives fully assembled, installation required only half a day — limited to excavation, positioning and connection. This standardized process is up to five times faster than conventional concrete chamber installations and significantly reduces trench opening time.

Achieved improvement

Through intelligent pressure control, NeoFlow keeps network pressure at a constant, optimized level, significantly reducing water losses. This plug-and-play solution delivers a measurable sustainability impact, saving approximately 130 million liters of water per year — enough to supply around 3,000 people. By stabilizing pressure, the solution also lowers energy consumption and protects the piping system from bursting. With a chamber designed for up to 100 years and internal components lasting up to 50 years, it further enhances the environmental footprint, lowers maintenance requirements, and total lifecycle costs. Standardized prefabrication reduces installation complexity and minimizes training needs for field teams on-site. Overall, Sabesp gained a scalable pressure management solution and *"This project has the potential to become a reference for utilities across Latin America, especially for sustainable water loss reduction and improved system reliability."* — stated Emerson José dos Santos, Regional Director, Sabesp.



Quick and easy installation of MULTI/JOINT 3000 Plus for the water inlet and outlet.



Safe top access through the chamber for quick and easy maintenance.

Customer benefits

- **Significant reduction of water losses** and reduced risk of pipe leaks through pressure control
- **Stable and reliable water supply** in pressure-sensitive networks, with immediate pressure reduction
- **Fast plug-and-play installation within 0.5 days**, minimizing service interruptions and trench opening times, enabling pressure control from day one
- **Complete solution from a single supplier**, simplifying sourcing, installation, maintenance, service, and future network expansion

Where next?



Learn more about NeoFlow PRV



Watch the full video



Learn more about Flowise



Visit our webpage to get in touch with your local specialist:
www.gfps.com/our-locations

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